

REMARKS

This Supplementary Amendment is being filed following the filing of a Response to the Final Office Action and Request for Continued Examination (RCE) on January 6, 2005.

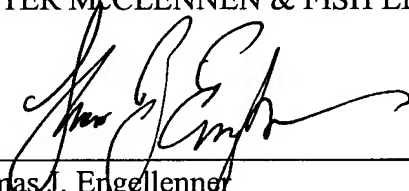
In the Specification, Tables 1, 2, and 3 have been added following paragraph [0037] on pages 11 of the specification pursuant to 37 C.F.R. § 1.58(a). The three Tables were originally filed, together with the original application, on December 27, 2001 as indicated on the Utility Patent Application Transmittal form (enclosed). However, the Tables appear to have been saved on the Patent and Trademark Office electronic system as a "Miscellaneous Incoming Letter" and were not included with the publication of this application as published on October 31, 2002 as Publication No. US 2002/0161357 A1. Accordingly, no new matter is added.

CONCLUSION

Applicants respectfully request entry of the Amendments to the Specification. The Examiner is urged to telephone the undersigned in the event that such communication is deemed to expedite prosecution of this matter.

Respectfully submitted,

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JCS25 U.S. PTO
12/27/01



Attorney Docket No.. P05477061 RJK

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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	P05477061 RJK
	First Named Inventor or Application Identifier	
	ANDERSON, R. Rox, et al.	
	Express Mail Label No.	EL 844514933 US
Date of Deposit		12/27/01

11017 U.S. PTO
10/03302
12/27/01

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents	ADDRESS TO: Box Patent Application Commissioner for Patents Washington, DC 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing)	8. <input type="checkbox"/> CD-ROM or CD-R, in duplicate, large table or Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. <input type="checkbox"/> Statement filed in prior application, Status still proper and desired.	9. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) <ul style="list-style-type: none"> a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: <ul style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
3. <input checked="" type="checkbox"/> Specification [Total pages 36] <ul style="list-style-type: none"> 26 - pages description 1 - page abstract 2 - pages of tables 3 - Total tables 7 - pages claims 46 - Total claims 	ACCOMPANYING APPLICATION PARTS
4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total sheets 18] <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Informal <input type="checkbox"/> Formal [Total drawings 22] 	10. <input type="checkbox"/> Assignment Papers/cover sheet & documents(s)
5. <input type="checkbox"/> Oath or Declaration [Total pages] <ul style="list-style-type: none"> a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) [Note Box 6 below] i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 	11. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney
6. <input type="checkbox"/> Incorporation by Reference (usable if Box 5b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein. See 19.	12. <input type="checkbox"/> English Translation of Document (if applicable)
7. <input type="checkbox"/> Application Data Sheet, See 37 CFR 1.76	13. <input type="checkbox"/> Information Disclosure Statement PTO-1449 <input type="checkbox"/> Copies of IDS Citations
	14. <input type="checkbox"/> Preliminary Amendment
	15. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
	16. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)
	17. <input type="checkbox"/> Request and Certification Under 35 U.S.C. §122(b)(2)(B)(ii)
	18. <input type="checkbox"/> Other: _____ _____ _____

Table 1.

Depth of damage, μm	Wavelength range, μm		NA range		Pulse width range, s
	broad	preferred	broad	preferred	
50-200	400 – 1880 & 2050-2350	800-1850 & 2100-2300	<3	0.2 – 1	<2
200-300	500-1880 & 2050-2350	800-1850 & 2150-2300	<3	0.2 – 1	<10
300-500	600-1380 & 1520-1850 & 2150-2260	900-1300 & 1550-1820 & 2150-2250	<2	0.2 – 1	<60
500-1000	600-1370 & 1600-1820	900-1250 & 1650-1750	<2	0.2 – 0.6	<120
1000-2000	670-1350 & 1650-1780	900-1230	<1.5	0.2 – 0.6	<120
2000-5000	800-1300	1050-1220	<1	0.2 – 0.4	<300

Table 2

Depth of damage, μm	Diameter of damage, μm	Wavelength, μm	NA	Pulse width, ms	Energy, J	Focusing depth, μm
300	50-100	2.2	0.3-0.5	<10	>0.00015	400-600
300	50-100	1.7	0.3-0.5	<10	>0.0007	400-600
300	50-100	1.3	0.3-0.5	<10	>0.003	400-600
300	50-100	1.54	0.3-0.5	<10	>0.0003	400-600
300	50-100	1.208	0.4-1	<10	>0.016	400-600
300	50-200	0.92	0.4-1	<10	>0.15	400-600
1000	50-200	1.7	0.3-0.4	<100	>0.01	1100-2000
1000	50-200	1.54	0.4	<100	>0.008	1100-2000
1000	50-200	1.3	0.4	<100	>0.1	1100-2000
1000	50-200	1.208	0.4	<100	>0.4	1100-2000

Table 3

Depth of damage, μm	Diameter of damage, μm	Wavelength, μm	NA	Pulse width, ms	Power, W	Focusing depth, μm
500-1000	200-1000	2.2	0.3-0.5	>100	>0.5	600-1500
500-1000	200-1000	1.7	0.3-0.5	>100	>1.5	600-2000
500-1000	200-1000	1.208	0.3-0.6	>3000	>1.0	600-2000
500-1000	400-1200	0.92	0.3-0.6	>3000	>25.0	600-2000
2000-3500	1000-2000	1.208	0.3-0.4	>10000	>1.5	4000-6000

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